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CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P. O. Boy 1450, Alexandria, VA 22313-1450, on the below date:

Signature: Date: January 26, 2006 Name: John C. Freeman, Esq.

BRINKS H O F E R GILSON &LIONE

	IN THE UNITED	STATES PATENT	AND	TRADEMARK	OFFICE
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In re	Appln. o			HOLZAPFEL 6		NU			OF	FICE	
Appl	n. No.:	No.: 10/635,422 Examiner: Anderson, Denise Brown									
Filed	l:	Augus	t 6, 20	03				Art Un	it:	2877	
For:				NTIAL POSITIO ARRANGEME							
Attor	ney Doc	ket No:	56/41	5							
Comr P. O.	Mail Stop Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450 TRANSMITTAL										
Sir:											
Attac	hed is/are										
\boxtimes				sclosure Statement, . No. 03016538.	, PTO Forn	n 14	449, Thr	ee (3) Cited	d Re	ferences,	Copy of
\boxtimes	Return Re	eceipt Posto	ard								
Fee c	alculation	:									
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				nt of \$ for a _						37 C.F.R.	§ 1.136(a).
			-	n an amount of \$			C.F.R. §	1.17(_).		
	An addition	onal filing fe	e has be	een calculated as sh	nown belov	N:			,		
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		Remaining mendment		Highest No. Previously Paid For	Present Extra		Rate	Add'l Fee	or	Rate	Add'l Fee
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Indep.	<u>.</u>		Minus				x 100=			x \$200=	
First Presentation of Multiple Dep. Claim +\$1				+\$180=		1	+ \$360=				
Total \$ To					Total	\$					
Fee p	Fee payment:										
	A check in the amount of \$ is enclosed.										
	Please charge Deposit Account No. 23-1925 in the amount of \$. A copy of this Transmittal is enclosed										

	A check in the amount of \$ is enclosed.
	Please charge Deposit Account No. 23-1925 in the amount of \$. A copy of this Transmittal is enclosed for this purpose.
	Payment by credit card in the amount of \$ (Form PTO-2038 is attached).
\boxtimes	The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this paper (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposi Account No. 23-1925.
	Respectfully,submitted,

January 26, 2006

John C. Freeman, Esq. (Reg. No. 34,483)

Date

IFW

I hereby Critify that this correspondence is being

RADENSIGE with the United States Postal Service as
first class mail in an envelope addressed to: Mail Stop Amendment,
Commissioner for Patents, P.O. Box 1450, Alexandria, VA

Name of Registered Representative:

22313-1450 on January 26, 2006

John C. Freeman, Reg. No. 34,483

Date of Signature

PATENT CASE NO. 56/415

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re	Application:)
Wolfg	gang Holzapfel et al.)))
Serial	No.: 10/635,422) Group Art Unit: 2877)
) Examiner: Anderson, Denise Brown
Filed:	August 6, 2003)
For:	INTERFERENTIAL POSITION)
	MEASURING ARRANGEMENT)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with Applicants' duty of disclosure under 37 C.F.R. § 1.56 and in conformance with 37 C.F.R. §§ 1.97-1.98, Applicants hereby submit the following references for consideration by the Examiner. In particular the requirements of 37 C.F.R. § 1.97(c) have been satisfied as shown by the attached certification in accordance with 37 C.F.R. § 1.97(e). A copy of the Willhelm dissertation is not being supplied since it was previously supplied with Applicants'

Information Disclosure Statement filed on November 26, 2003. Copies of all of the other cited references, except the cited U.S. Patents, are enclosed along with a completed copy of Form PTO-1449.

I. <u>DISCLOSURE</u>

A. <u>U.S. Patents</u>

Patent No.	Inventor	Issue Date
5,079,418	Michel et al.	01/07/92
5,430,546	Huber	07/04/95
5,574,558	Kudo et al.	11/12/96
5,760,959	Michel et al.	06/02/98
5,774,219	Matsuura	06/30/98
5,812,320	Maeda	09/22/98
6,005,667	Takamiya et al.	12/21/99
6,907,372 B1	Spanner	06/14/05

B. Foreign Patent References

Reference No.	Country	Publication Date
0 446 691 A2	EP	09/18/91
197 01 941 A1	Germany	07/24/97
1 085 291 A2	EP	03/21/01

C. <u>Literature</u>

1) Jörg Willhelm, "Dreigitterschrittgeber," Dissertation made at Hannover Technical University, 1978, pp. 47-52.

II. <u>DISCUS</u>SION

A. <u>U.S. Patent No. 5,079,418</u>

The '418 patent was cited as an X-type and a Y-type reference in a Search Report for corresponding European patent application no. 03 01 6538. An X-type reference is pertinent when taken alone. A Y-type reference is pertinent when combined with one or more other Y-type references.

B. <u>U.S. Patent No. 5,574,558</u>

The '558 patent was cited as a D-type and an A-type reference in a Search Report for corresponding European patent application no. 03 01 6538. An A-type reference provides technical background and is not pertinent to patentabilty.

C. <u>U.S. Patent No. 5,760,959</u>

The '959 patent was cited as an X-type and a Y-type reference in a Search Report for corresponding European patent application no. 03 01 6538.

D. U.S. Patent No. 5,812,320

The '320 patent was cited as an X-type and a Y-type reference in a Search Report for corresponding European patent application no. 03 01 6538.

E. <u>U.S. Patent No. 6,005,667</u>

The '667 patent was cited as an D-type and a Y-type reference in a Search Report for corresponding European patent application no. 03 01 6538.

F. European Reference No. 0 446 691

Based solely on the drawings and the attached English-language Abstract, the '691 reference is pertinent because it appears to disclose a phase grid that can adjust intensity

properties and phase angles of partial beams diffracted in different orders. It is believed that U.S. Patent No. 5,430,546 corresponds to the '691 reference.

The '691 reference was cited as an D-type and a Y-type reference in a Search Report for corresponding European patent application no. 03 01 6538.

G. German Reference No. 197 01 941

Based solely on the drawings and the attached English language Abstract, the '941 reference is pertinent because it appears to disclose an encoder with a reflection-type scale. It is believed that U.S. Patent No. 5,774,219 corresponds to the '941 reference.

The '941 reference was cited as an X-type and a Y-type reference in a Search Report for corresponding European patent application no. 03 01 6538.

H. European Reference No. 1 085 291

Based solely on the drawings and the attached English language Abstract, the '291 reference is pertinent because it appears to disclose a position scale with graduation divisions and guide error scales arranged perpendicular to the position scale. It is believed that U.S. Patent No. 6,907,372 corresponds to the '291 reference.

The '291 reference was cited as an X-type and a Y-type reference in a Search Report for corresponding European patent application no. 03 01 6538.

I. Willhelm Dissertation

The pertinence of the Willhelm dissertation is discussed in paragraphs 0003 and 0006 of the present application.

The Willhelm Dissertation was cited as an X-type, Y-type and a D-type reference in a Search Report for corresponding European patent application no. 03 01 6538.

III. CONCLUSION

It is believed that none of these references, alone or in combination, disclose or suggest the invention claimed. However, Applicants wish to make it clear that the disclosure of the above references is in no way an admission that they qualify as prior art. It is Applicants' desire, however, to have these references available in the record for both the Examiner and the public to see. Applicants therefore request that the Examiner review the entire disclosure of each reference and make the above-listed references of record.

Respectfully submitted,

John C. Freeman

Registration No. 34,483

Attorney for Applicants

BRINKS HOFER GILSON & LIONE P.O. Box 10395 Chicago, Illinois 60610 (312) 321-4200

Dated: January 26, 2006

JAN 3 0 2006 CERTIFICATION UNDER 37 C.F.R. § 1.97(e)(1)

I, John Treeman, certify that each item of information contained in the information disclosure statement attached hereto was first cited in a Search Report regarding European Patent Application No. 03 01 6538, which is the European counterpart of United States Patent Application Serial No. 10/635,422. The European Search Report was mailed on December 22, 2005 which is not more than three months prior to the filing of the attached information disclosure statement.

Date: January 26, 2006

John C. Freeman

Registration No. 34,483 Attorney for Applicant

BRINKS HOFER GILSON & LIONE P.O. Box 10395 Chicago, Illinois 60610 (312) 321-4200

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FORM PTO-1449 JAN 3 0 1000 E	SERIAL NO.	CASE NO.
3	10/635,422	56/415
LIST OF PATERICA AND PUBLICATIONS FOR	FILING DATE	GROUP ART UNIT
APPLICANT'S INFORMATION DISCLOSURE	August 6, 2003	2877
STATEMENT		
(use several sheets if necessary)	APPLICANT(S): Wolfgang Holza	apfel et al.

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER Number-Kind Code (if known)	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	B1	5,079,418	01/07/92	Michel et al.		
	B2	5,430,546	07/04/95	Huber		-
	В3	5,574,558	11/12/96	Kudo et al.		
	B4	5,760,959	06/02/98	Michel et al.		
	B5	5,774,219	06/30/98	Matsuura		
	B6	5,812,320	09/22/98	Maeda		
	B7	6,005,667	12/21/99	Takamiya et al.		
	B8	6,907,372 B1	06/14/05	Spanner		

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER Number-Kind Code (if known)	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
	B9	0 446 691 A2	09/18/91	EP		Yes
	B10	197 01 941 A1	07/24/97	Germany		Yes
	B11	1 085 291 A2	03/21/01	EP		Yes
		1				

EXAMINER INITIAL		OTHER ART – NON PATENT LITERATURE DOCUMENTS de name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, besium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.
	B12	Jörg Willhelm, "Dreigitterschrittgeber," Dissertation made at Hannover Technical University, 1978, pp. 47-52.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.